

KEN REYNOLDS-PRESIDENT  
GARY W. CHAPPELL-VICE PRESIDENT

DRILLING CO., INC. - OIL WELL DRILLING CONTRACTORS

P. O. BOX 1498 ROSWELL, NEW MEXICO 88202-1498  
505/623-5070 ROSWELL, NM  
505/746-2719 ARTESIA, NM

November 4, 1996

Manzano Oil Corporation  
P.O. Box 2107  
Roswell, New Mexico 88202


RE: Cathead Mesa #1

Gentlemen:

The following is a Deviation Survey on the above referenced well located in Socorro County, New Mexico.

261' - 1°	1668' - 4 1/2°	2087' - 2°	3189' - 1 3/4°	4357' - 1/4°
504' - 1/4°	1732' - 3 3/4°	2245' - 1 1/2°	3439' - 3°	4777' - 2°
1002' - 1/2°	1795' - 3 1/4°	2434' - 1°	3533' - 2 1/2°	5253' - 1 3/4°
1510' - 3°	1890' - 3 3/4°	2687' - 1 1/2°	3626' - 2°	5761' - 1 3/4°
1605' - 4 1/2°	1992' - 2 1/4°	2939' - 1 3/4°	3719' - 2 3/4°	6180' - 2 3/4°
				3813' - 2 1/4°
				4107' - 1 1/4°

Sincerely,

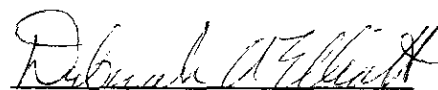
  
Gary W. Chappell  
Contracts Manager

STATE OF NEW MEXICO)  
COUNTY OF CHAVES )

The foregoing was acknowledged before me this 4th day of November 1996  
by Gary W. Chappell.

MY COMMISSION EXPIRES

JUNE 20, 2000



NOTARY PUBLIC